Chrysler RAM PHEV Fleet

Number of vehicles: 109

Reporting period: July 11 - July 12

All Fleets

Date range of data received: 7/1/2011 to 7/31/2012

Number of vehicle days driven: 15791

All Trips Combined

Overall gasoline fuel economy (mpg)	19
Overall AC electrical energy consumption (AC Wh/mi)[1]	102
Overall DC electrical energy consumption (DC Wh/mi)[2]	70
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	43
Total number of trips	95,019
Total distance traveled (mi)	863,761

Trips in Charge Depleting (CD) mode[3]

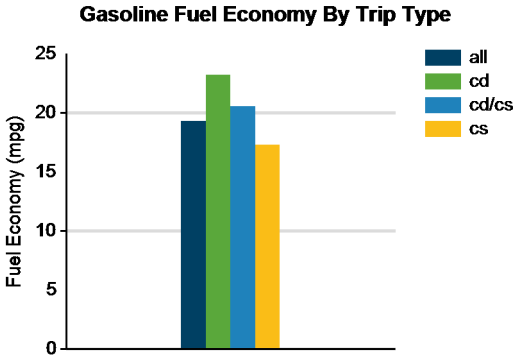
Gasoline fuel economy (mpg)			23
DC electrical energy consumption (DC Wh/mi)[4]			212
Number of trips			39,852
Percent of trips city | highway	94%	|	6%
Distance traveled (mi)			217,980
Percent of total distance traveled			25%

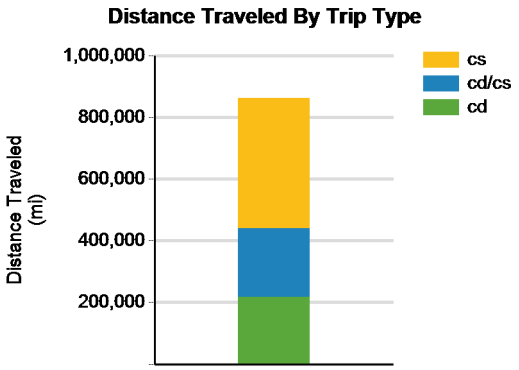
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes[5]

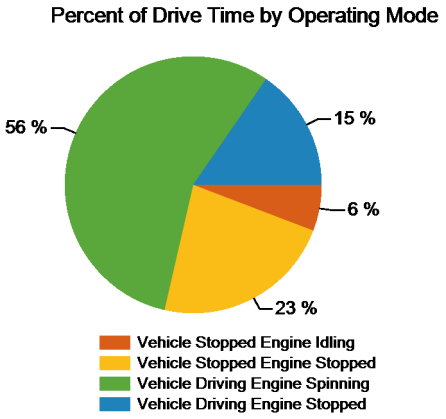
Gasoline fuel economy (mpg)			21
DC electrical energy consumption (DC Wh/mi)[6]			69
Number of trips			10,803
Percent of trips city | highway	74%	|	26%
Distance traveled CD | CS (mi)	83,026	|	139,888
Percent of total distance traveled CD | CS	10%	|	16%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)			17
Number of trips			44,364
Percent of trips city | highway	90%	|	10%
Distance traveled (mi)			423,545
Percent of total distance traveled			49%







Notes: 1 - 9. Please see http://avt.inl.gov/pdf/phev/chryslerreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes. This document also includes all report changes to date.

The Chrysler RAM PHEV Fleet was designed as a demonstration program of customer duty cycles related to plug-in electric vehicles and may not necessarily demonstrate optimized fuel economy.

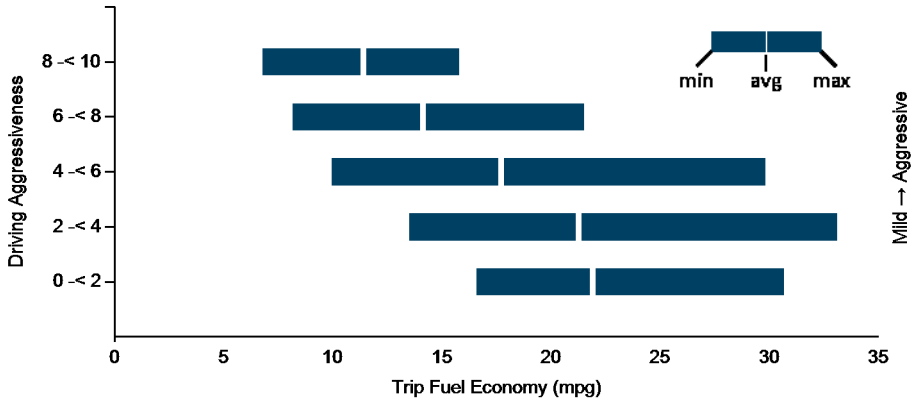
Vehicle fuel economy is based on customer usage and may not be representative of maximum potential fuel economy.

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	22	26
DC electrical energy consumption (DC Wh/mi)	230	161
Percent of miles with internal combustion engine off	15%	3%
Average trip Agressiveness	6.1	3.7
Average trip distance (mi)	4	25

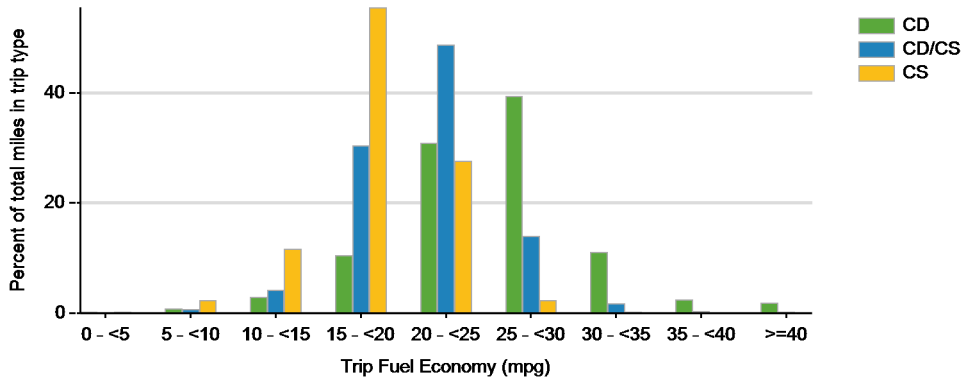
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode		
Gasoline fuel economy (mpg)	19	21
DC electrical energy consumption (DC Wh/mi)	84	58
Percent of miles with internal combustion engine off	12%	2%
Average trip Agressiveness	5.4	2.8
Average trip distance (mi)	12	45

Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	16	19
Percent of miles with internal combustion engine off	11%	2%
Average trip Agressiveness	5.7	2.7
Average trip distance (mi)	6	42

Effect of Driving Aggressiveness on Fuel Economy[8]



Trip Fuel Economy Distribution By Trip Type



Plug-in charging

Average number of charging events per vehicle per month when driven			12.38
Average number of charging events per vehicle per day when driven			0.87
Average distance driven between charging events (mi)			62.64
Average number of trips between charging events			6.89
Average time charging per charging event (hr)			2.37
Average energy per charging event (AC kWh)			6.38
Average charging energy per vehicle per month (AC kWh)			78.94
Total number of charging events			13,790
Number of charging events at Level 1 | Level 2	3,319	|	10417
Total charging energy consumed (AC kWh)			87,944
Charging energy consumed at Level 1 | Level 2 (AC kWh)	21,021	|	66,919
Percent of total charging energy from Level 1 | Level 2	24%	|	76%
Average time to charge from 20% to 100% SOC (hrs) Level 1 | Level 2[9]	12.55	|	2.85